

## APHIS Laboratory endowment

Laboratory of Quality Control for Bee Products is equipped with the newest generation of apparatus, capable to assure chemical analyses, authenticity and contaminant determination from honey and other bee products, at the highest standard of quality.

Equipment List include:

1. Water Ultrapurifier Ultra Clear Direct UV SG Wasseraufbereitung-Germany
2. Vortex Wizard Velp Scientifica-Italy
3. Agitator Chauffant 10515 Fisherbrand
4. Sonication Bath Sonorex Super RK 100H Bandelin-Germany
5. Centrifuge 2-5 Sigma-Germany
6. Automatic Balance Bioblock Scientific LB300
7. Analytical Balance Ohaus-Germania EP114CM
8. Abbe Digital Refractometer Selecta-Spain WYA-S
9. Furnace with electronic controller Baberther
10. Owen FD1 Binder-Germany
11. Water Bath WB14 Memmert-Germany
12. Conductometer/pH-meter C532 Consort
13. Automatic Titrator and Karl-Fischer Titrator, Schott Titroline Easy
14. Pfund Colorimeter PFX 195/7 Lovibond-Germany
15. Mycrotaevaporator VV Micro Heidolph-Germany
16. Rotaevaporator R215-Buchi Switzerland
17. Solide Phase Extraction System with 12 places Alltech
18. Soxhlet extraction system Gerhardt Germania
19. Kjeldahl System Buchi Switzerland
20. UV 1700 Spectrophotometer Shimadzu Instruments-Japan
21. Multichannel Multidetecion Spectrophotometer for microplates Multi-Reader Synergy2-BioTek Instruments USA
22. FT-IR with ATR Spectrophotometer- Bruker Germany
23. High Performance Liquid Chromatograph VP Shimadzu Instruments series -Japan with UV, Fluorescence and PDA detectors
24. HPLC system coupled with mass spectrometer and Photo Diode Array (LC/MS/DAD)- Shimadzu Japonia
25. Gaz Chromatograph-Mass Spectrometer GC2010 coupled with MS and ECD detector QP 2010 Shimadzu Instruments-Japonia
26. Gaz Chromatograph with FID detector and termospray ionisation (GC/FID/NPD)- Schimadzu Japonia
27. Atomic Absorbtion Spectrophotometer UV VIS/VIS-NIR AA 6300 Shimadzu Instruments-Japonia
28. Atomic Absorbtion Spectrophotometer with graphite oven and flame -Perkin Elmer-USA